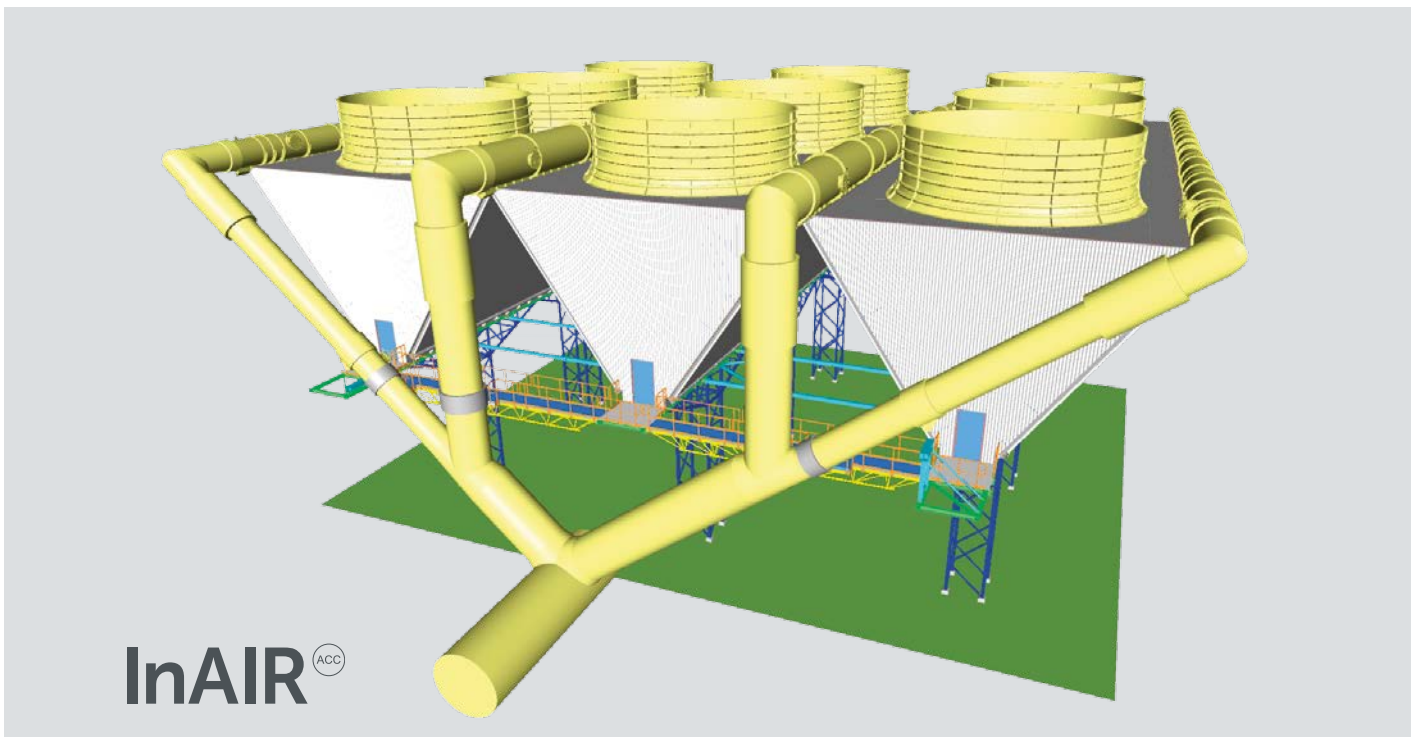


InAIR^{ACC} – THE NEW INDUCED DRAFT AIR COOLED CONDENSER

Innovative and intelligent design



From the company who invented the Air Cooled Condenser, comes the next generation of innovative and intelligent design:

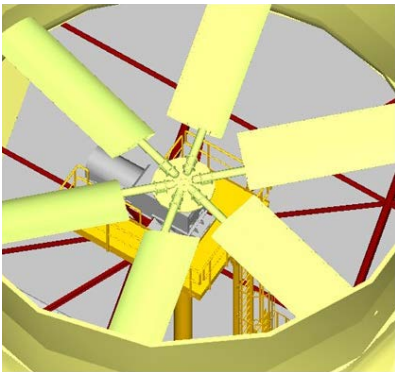
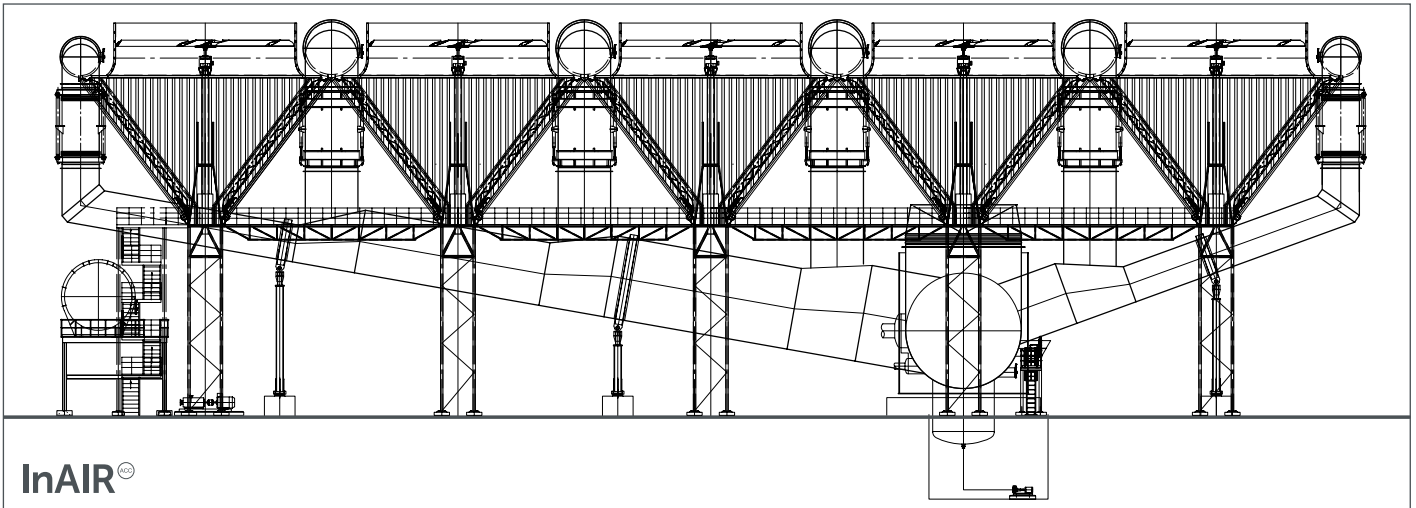
The InAIR blends proven components and technologies to yield the next generation in dry cooling: an Air Cooled condenser featuring induced draft fans.

Induced draft fans have been used reliably in the majority of power plant main cooling systems, world-wide (e.g., wet cooling towers, indirect dry cooled Heller systems), but their application in ACCs have been limited due to higher costs. But through innovative engineering and utilization of our self-supporting ALEX bundles, ENEXIO can now offer the InAIR, an ACC which offers the superior operational performance of ID fans with added savings in material supply, delivery durations, and construction effort.

Primary benefits over classic ACC with forced draft fans:

- Reduced air inlet and total height of ACC: less visual impact
- Smaller footprint of columns
- Reduction of steel structure quantities (-60 %)
- Reduction of steel structure weight (-50 %)
- Reduced costs for construction (-10 % to -25 %)
- Reduced construction duration: 20 % to 30 % decrease in man-hours for erection work
- Easier pre-assembly (mainly pre-assembly on ground)
- Inherent design of supporting steel structure greatly reduces the requirement of scaffolding
- Reduction in the length of the main steam duct

- Reduced investment costs
- Shorter delivery and erection periods



No fan bridge needed

In a classic forced draft ACC, the fans are exposed to an elevated level of dynamic loading. The vibrational effect of dynamic loading can be mitigated by calculation and design – but not eliminated. The InAIR resolves this weakness in the classic ACC design.

Operational advantages

- InAIR requires no fan bridge, resulting in less vibration stress which leads to longer lifetime of rotating equipment
- Less sensitivity to wind effects
- Minimized air recirculation due to high exit velocities of air
- Reduced auxiliary power demand due to lower air-side pressure drop



InAIR under construction in China utilizing optional concrete substructure.

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